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March 31, 2000

W. W. (Whit) Jordan
Vice President-Federal Regulatory

202 463-4114 Fax 202 463-4198

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Ms. Magalie R. Salas Secretary Federal Communications Commission The Portals 445 12th Street, SW Washington, DC 20554



Re: CC Docket No. 88-2, Phase I - Filing and Review of Open

Network Architecture Plans

Dear Ms. Salas:

BellSouth Telecommunications, Inc., ("BellSouth") hereby submits its March 31, 2000, semi-annual reports on state and federal tariffing of ONA services in accordance with the Commission's Memorandum Opinion and Order in Filing and Review of Open Network Architecture Plans, CC Docket No. 88-2, Phase I, released on December 19, 1991. As directed by the Commission, the attached report includes the following:

(1) Consolidated nationwide matrix of BOC ONA services and state and federal ONA tariffs.

This matrix is provided as Attachment P1 and shows the status of ONA services as of January 1, 2000. The names of the ONA services as titled in particular state and federal tariffs, and the associated tariff references, are included in Attachments P3 and D3.

(2) Computer diskettes and print outs of data regarding state and federal tariffs.

This information is included within the ONA Services User Guide, which is being submitted in response to item (3).

No. of Copies rec'd O+/ List A B C D E (3) Printed copy and computer diskette of the ONA Services User Guide.

The ONA Services User Guide is provided as follows:

Services Descriptions Section - A paper version is provided as Attachment P2.

Wire Center Deployment Section - A single diskette version is provided as Attachment D2. No paper version is being provided due to the large size of the report. Tariff Reference Guide Section - A single diskette version is provided as Attachment D3. A paper version of the report, which was produced by running menu option #5, is provided as Attachment P3. Both the diskette version and the paper report reflect tariff approvals through January 1, 2000.

(4) Updated information contained in Appendix A of the January 31, 1991 <u>Cross Reference Guide</u> on ESP requests received and how they were addressed by the BOCs with details and matrices.

An updated version of Appendix A is contained in Attachment P4.

(5) Updated information contained in Appendix B of the January 31, 1991 <u>Cross</u> <u>Reference Guide</u> on BOC responses to the requests and matrix.

An updated version of Appendix B is contained in Attachment P4.

(6) Updated information contained in Appendix C of the January 31, 1991 <u>Cross</u> <u>Reference Guide</u> on services offered by the BOC in response to the requests.

The information previously contained in Appendix C is now contained in Appendix 1 of the Services Descriptions Section of the <u>ONA Services User Guide</u>. The Services Descriptions Section is provided in response to item (3) and contained in this submission as Attachments P2 and D1.

If you have any questions concerning this submission, please contact me on (202) 463-4114.

Sincerely.

W.W.Jordan

Vice President - Federal Regulatory

Attachments

cc: Ann H. Stevens

International Transcription Service

INDEX OF BELLSOUTH ATTACHMENTS

Paper Attachments

- P1 Nationwide Tariff Matrix
- P2 Services Descriptions
- P3 Tariff Reference Guide, Menu Choice 5
- P4 Appendix A & B

Diskette Attachments

- D1 Services Descriptions
- D2 Wire Center Deployment
- D3 Tariff Reference Guide



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Coin Ph-Post Dial DTMF	91	L_	<u> </u>	L		1	С	C	C	C	С	Ç	С	Α.	<u> </u>	Α	Α	Α	Α	Α	A	Α	c	듸	C	C	С	ᄋ		С	1 c	С	드	С	Α	<u> </u>	A	Α	A	A	A	I.A.	L△	I A	<u> </u>	A	IA.	A
Computr Assist Call Xfer		BB														_						_			_	_							\sqcup	_	_				<u> </u>	<u> </u>	<u> </u>	<u> </u>	┺			丄		$oxed{oxed}$
Computr Assist Dialing	R85	ВВ						<u> </u>																				L	┸		上									\perp		_	L_	_			<u></u>	
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Coord Voice and Data	R84	BB																																						1	L		\mathbf{L}_{-}				<u> </u>	
Cust Originated Trace	92	С	C	Γ	С		С	C	С	C	C	C	c	С	С				O	C		С	С	С	С	С	С	C	C C	Ö	Ĉ	С	C	С	С	C	С	С	C	C	С	C	Tc	C	C	C	C	C
Custom Service Areas	R29			Γ_											В		В					В				[Т	Г	Γ	Ι								Γ			Γ_{-}				Ι	
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Cxr Select On Rvrs Charg	89	AA	AA	ĀΑ	ΙAΑ	AA	ВВ	В	BB	ВВ	ВВ	ВВ	BB	AΑ	AA	AA	AA	AA	AΑ	AA	AA	AA	BB	вв	вв	вв	BB [BB A	AA	1				П	A	Α	A	A	A	A	Α	A	TA	A	A	A	A	A
DID Load Across WC	R34	1		Г		T				T-				Г												D			\top	T				_1				Ī		1		1	Т	1	T		Г	
DID Trunk Queuing	95	Т		Г			В	В	В	В	В	В	В	Г														B	в	1		1			В	8	BB	В	В	В	В	В	В	ВВ	В	В	ВВ	В
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DS0-B Subrate Multiplxr	R71	Ť	1	Ť	m	1	T	\vdash	†	t	1	\vdash		BO	BD	BD	ВО	BD	BD	BD	BD	BD	\vdash			_	1	1	\top		1	1	┌─┤	_1	\neg	-		1	1	1		1	†	1	1	1	†	1
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Default Window Size-Pkt	R59	1	+	t-	t –	1	t	1	t	\vdash	 	 	 	tŤ	Ť	Ť	۲Ť	Ť	Ť	Ť	H						BD		- +	Ť	╅	Ť	┝┷┥							B			В		В		В	
Derived Ch (Monitoring)	166	CC	CC	CC	tcc	cc	С	1	c	1	tc	 	 	 	С	 	\vdash	╅	 	 	Н		ĀĀ				AA		cto	:1-	┪┈	+-	┞─┤		<u>~</u>	-		十	Ť	1-	⇈	Ť	╁	Ťċ		Ť	ľc	_
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Digital Data Svc 2-Wire	R6	1	+	+-	+	+	┢	+	+	\vdash	+	├	├─	۳	۳	122	100	100	100	المحا	احوا	20	20	20	22	20		~		1	+	+-	╀─┤	-	<u>. </u>		Δ	A	A	┪	A	1_	TA.	IA.	┢	╁	A	╅
Dir Call Pickup w/Barge	R35	╂	+	├	+	+	1-	╁	+	+	╁	-		ŧ-	 	 	+	┼		├				\vdash	\vdash		\vdash	+	+	+	+-	+	╀╌┤	-	В	В	^					В		ГB		ı``	<u> </u>	+~
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	148	1	tc		+-	T _C	<u> </u>	1	100	1	CC	5	100	60	lpr.	Dr.	DC.	DD.	ar.	DC.	<u> </u>	90	90	20	<u> </u>	<u></u>	BD .		 -	-	100	cc					ᇹ	+	녆	녆	C	lc B	卡		lc ^b	_	C	c
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3/31/2000 Update [Page 2]	+	╄	┰		₩	+-	⊢	1	+	╀	₩	├-		₽-	₩	⊢	┼	-	├	├	Н	$oldsymbol{\sqcup}$	-	\vdash		-	\vdash	+		-	+	+	┞┈┤					+	\vdash	┿	+	+	+-	+	+	+	+	+
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Service Name (Generic)			An	rerite	ech		Г		Bel	Atl	antic		*****	Г			В	HSc	uth						NYN	ŀΕΧ			Paci	ific		5	WBT								_	υŞ	WES	SŤ					
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Dist Ring Term Screen	99	C	Ĉ		Ĉ			Ċ		Ċ			С			С		С						С				c	_	-	c	С	_	c	С	С	C	С	_	_		Tc	_		_	_	_	_	_
Distinctive Alert	R37	Ť	ŭ	_	ř	+ ٽ	۲Ť	 -	اٽ	۱ŭ	۱ ۲	Ť	<u> </u>	۱Ť	۱Ť	ا ٽ	ا ٽ	ا ٽ	۱Ť	۱Ť	 	Ŭ	<u> </u>	۱Ť	ŭ	<u> ۲</u>		Ť	\dashv	_	ٽ	اٽ	-	 -	Ť	B		В			В						_	B	_
Distinctive Ringing	96	С	C	 	c	1 c	c	c	7	c	tct	Ċ	С	c	10	tc	10	c	c	С	l c l	С		\vdash	-	Н		-	cl	С	c	С	 	С	С	č	Ċ		Ιč										c
Extended Superframe Cond	168	BB		BB		ВВ	_	A	AA	_		A	<u> </u>								Ă			-	_	_	+	-	-	_			ВВ			Ť	۳	۲	۲	۲	₩	┯	+ ≚	۱ ≚	+ ŏ	۲	┯	┿	┿
Fast Select Accept Pkt	149					ВВ		В		В	1		B								BD		BC.	<u> </u>	BD.	BD.		<u> </u>	ᇜ				BB			Б	В	В	В	В	В	В	В	В	В	В	В	В	+-
Fast Select Request Pkt	150	C	c	100	c			۳	10	۳	۲	<u>. </u>	۳								BO												BB				B	В	18	B	В	В	В	В	B	붑	₽ B	븜	牆
Faster Signaling On DID	101	ř	۲		ا ≺	+~		-	В	 	В	В	В								ВВ								90	-	<u> </u>	00	ВВ	ВВ	ВВ			_	IAA			_		_		12.	_	15.	AA
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Flexible ANI		DD	DD	PP.	00	100	₽	Р.	P	Р.	₽		<u> </u>	DD.	IDD	IDD	DD	DD	DD	DO	DD	DD	₽	Р_	<u> </u>	<u> </u>	P	-	-+	_	DD	IDD	DD	DD	D				<u> </u>			_	_			부		무	부
Flow Contr Param Neg-Pkt	R60	ļ		⊢	⊢	+-	▙	⊢	₩	⊢	-		<u> </u>		١.,	+-	٠	١.,	١	٠.	1		ļ.,.									↓					В	В	В				В		В	В	В	В	- IR
Frame Relay Service	R7			⊢	⊢	+-	┺	<u> </u>	١.	<u> </u>	1 - 1	_	_	AΑ	ĮAA	144	AA	144	<u> ^^</u>	100	AA	<u> </u>	AA.	<u> </u>	AA	AA.	^^	^^			_	Ь.	\vdash			AA.	AA	IAA	AA	AA	┷┷	122	ĮAA	100	\ AA	1^^	-122	144	AA
High Cap Dig Handoff Svc	R72			_	Ь.		1	B	В	В	В	В		_	↓	١	ļ.,	L.	↓	ـــــ			_			Ш	_	_				₩.					_	ــــ	ــــــ	╄	↓	↓	4_	↓_	_	4_	┺	4_	4
Hot Line	103				<u> </u>		_	<u> </u>		_						C			C	<u> </u>							BD						С		С		С		С	-					_	_	_	_	_
Hunt Groups Packet	151	ВВ	BB	BB	BB	BB					ВВ			BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	вв		BB	BB	вв	BB	В	В	В	В	В	В	В	В	В	В	В	В	В	В	В
Inband Signaling	R73				_		BB	BB	BB	BB	BB	BB	BB		L	<u> </u>	Ш			Ш	Ш			ш		Ш	Ш		1			$oldsymbol{ol}}}}}}}}}}}}}}}}}$						L_				上	L	1	┸	\perp		上	
Incoming Cls Barred-Pkt	R61				L				L														BD	BD	BD	BD	BD	BD				L				8	В	В	В	В	В	В	В	В	В	В	В	В	В
Initial Address Message	R82	ВВ	BB	BB	BB	ВВ				L																			\Box I																	$oldsymbol{\mathbb{L}}$			
Logical Chan Layout-Pkt	R63		·						I	I						1	Π		Ι													T				В	В	В	В	В	В	В	В	В	В	В	В	В	ΠB
Logical Channels-Pkt	R62			T	Т	T	T	T					T	I	Т	T	Т		T													T				В	В	В	В	В	В	В	В	В	В	B	В	В	B
MLHG Access to Each Port	111	ВВ	ВВ	вв	ВВ	BB	BB	В	88	ВВ	ВВ	BB	ВВ	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD (вв	ВВ	ВВ	ΒB	ВВ	BB	В	ВВ	ВВ	BB	BB	BB	BB	BB	BB	BE	BE	BB	BE	BF	BE
MLHG CO Announcements	109	ВВ	ВВ	ВВ	ВВ	BB	BB	BB	BB	BB	ВВ	BB	ВВ	BB	BB	BB	ВВ	ВВ	BB	В	ВВ	вв	BD	BD	BD	BD	BD	BD I	вв		BB	ВВ	ВВ	вв	В	В	В	В	В	B	ŤВ	В	В	В	B	B	В	3 B	1 8
MLHG Overflow	113					BB					ВВ																					-	-					ВВ								BB			
MLHG UCD Line Hunting	115					BB															BD									BB	BB	BB	ВВ	BB	B			ВВ			BB				BE		3 B8		
MLHG UCD With Queuing	117					BB		+	1	 	+		-			BB					88												BB																BE
MWI - Packet Access	153	-	-		+==	+	1	+	1	+-	\vdash		 	155	+	+==	1	1	1	 -	1		-	-	-	-	-						BB			_	-	100	155	100	+==	155	155	+==	+==	+==	+==	755	+=
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MWI ATR Visual Msg Wtg	106	č	č		Τŏ		tř	╁┷	╁┷	1 ∽	+~	<u> </u>	┯		Ťč			tč					HŬ	 	ا	ا	H	Ť		č	ř	۲	 	Ť	×			cc			cc								
MWI Act (Audible) Expand	187	88				BB	╆╌	+	╁	╁┈		-	├	ĭ		┯	l ŏ	۲	╁	۲	۲	H	┢	├		├	\vdash	-1	~	⊣	_	╁	\vdash		-	-	_	BB			B		ВВ			5 B			_
	190					BB		╁	╁	⊢	+		├	┢	+	+-	╁	┰	+	⊢	-	\dashv	┥	┢	-		\vdash					╁	\vdash				B	В	В	B	В	1 _{DD}	В	B			_	-	_
MWI Act (Visual) Expand MWI Activation (Audible)	185					BB		100	100	100	80	DD	BB.	OD.	100	100	100	100	100	60	100	88	-	DD.	DD.	55	66	00	00		_	В	 	В	_	Į		BB			_	100		_		_		_=	BE
	189	BB				BB		100	IDD	PPP	100	00	DD.	В		B		В			В			00	ВВ	ВВ	PP		BB	B	<u> </u>	睁	₽┤	<u>-</u>	<u>-</u>														
MWI Activation (Visual)	104	B C	C		C			┿	┼	┰	+	_	├ ─	₽	╀₽	╀┺	╀₽	₽ ₽	₽	l p	₽ -	В	⊢	-	 		\vdash		ВВ	-		₩	\vdash	_	ш		BB												3 BE
MWI Audible/Visual								100	100	155	155		ļ	100	155	155	155	155	100	 	 	-	<u></u>	 	-	_						155	20				C	C	I C			C							
Make Busy Key	179	RR	BB	BB	RE	BB	88	BB	IBB	IRR	RR	RR	BR	RD	IRO	IRD	IRD	IRD	IRD	IBD	IRD	RD	BD	IRD	RD	RO.	RO	RD	BB	RR	BR	IBB	BB	RR	R_														3 BE
MegaBit Service	R8	_	L		↓_		-	٠	╀	↓	1		ـــــ	┺	┺	┷	┺	↓	↓	↓	↓		ļ	┞	_	\vdash	\sqcup	_			L	↓			\blacksquare	88	AA	ĮAA	122	<u> AA</u>	122	100	· IA	1^/	<u>\</u> ^			<u> </u>	\ \ \ \ \ \ \ \ \ \
Menu Acs Trans - Gateway	152	!	ļ	!	₽.	_	1_	↓_	₩.	╙	1		ļ	!	┺	1	_	↓_	 	↓	1		_	ļ		—	\sqcup	_	\Box			۱				<u> </u>	<u> </u>	↓	4	┺	┷	1_	┿	┷	4	B	4	-	4
Menu Server-Pkt	R64	1	L_	ļ	┖		↓_	↓_	ļ	ــــــــــــــــــــــــــــــــــــــ	_		<u> </u>	<u> </u>	↓_	↓_	ـــــ	ــــــــــــــــــــــــــــــــــــــ	<u> </u>	↓				ļ	<u> </u>	ļ	Ш	_	\Box				DD				L_	<u> </u>	┸-	↓	┸	ـــــ	┷	丄	┸	ᆚ			┸
Message Desk (SMDI)	181	BB	BB	BB	BE	3 BB	BB	ВВ	ВВ	BB	BB	BB	ВВ							BB				88	BB	BB	ВВ	ВВ	BB	В	В	В	В	В	В	BB.	BB	BB	BB	BB	BB	BB	B8	BE	BE) BB	, BE	<u>ا B</u> E	BI
Monthly Call Detail Rec	R40	L	ட	<u> </u>	<u> </u>		1_	_	1_	Ь.		$oxed{oxed}$		В	<u> B</u>	В	B	Į B	ـــــ	<u> </u>	B	В	_	1_	∟						<u> </u>	<u> </u>					_	_			上	_	┸	┸			丄		┸
Mplx-T1-1.544Mbps-Line	R41	L	L	1	_		1_		1	<u> </u>	ļ			1_	L		L.	L.	<u> </u>	<u> </u>	<u> </u>		_				Ш		\Box							BB	BB	BB	BB	BB	BB	BB	BB	BE	3 86	, BE) BE	J BF	3 BE
Mplx-T1-1.544Mbps-Trunk	R42		L	<u> </u>					<u> </u>						L					L			В	BD	В	BD	В	В	$oldsymbol{ol}}}}}}}}}}}}}}}}}}}}$											┸							上	\perp	\perp
Mssg Desk Expand (SMDIE)	183	88	BB	BB	BE	3 BB								BB	88	BB	BB	BB	BB	BB	ВВ	ВВ					\Box								В	BB	88	BB		BB	В		BB	В	BE	3 B	В	BF	3 B
Mult Ntwk Addr/Port-Pkt	R65						В	В			ВВ																BD									В	В	В	В	В	В	В	В	В	В	В	В	В	В
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Page numbers are based on 1/31/2000 release of the ONA Services User Guide.

Page numbers preceded by R are in Appendix 1 of the ONA Services User Guide, which contains Region Specific services.

Abbreviations: A=BSA

B=BSE

C=CNS D=BSE/CNS

Under each state abbreviation, the left column contains FCC tariff information and the right column contains state tariff information.

CF Mult Sim Call Intersw Call Forwarding - Multiple Simultaneous Calls Interswitch CF Var Act w/o Crtsy Cal CF Var Remote Act/Cntrol CF Variable CF With Variable Rings CFBL Interswitch CFBL/DA Cust Act/Deact Call Forwarding - Multiple Simultaneous Calls Interswitch Call Forwarding - Variable - Activation Without Courtesy Call Call Forwarding - Variable-Remote Activation/Control Call Forwarding - Variable Call Forwarding With Variable Rings Call Forwarding - Busy Line Interswitch Call Forwarding - Busy Line Intraswitch Call Forwarding - Busy Line or Don't Answer - Customer Control of Activation/Deactivation	Generic Name of Service Abbreviated Name	Generic Name of Service Full Name
AIN Single Number Access AIN Term Data Co/Cus Rt AIN Term Data Co/Cus Rt AIN Term Inating Data Collection/Customized Routing ATM Cell Relay Service Acc To Cir Ch Transmissn Access To Cler Ch Transmissn Access To Operations Support Systems Information Access To Cust Prem Annc Access To Operations Support Systems Information Access To Cust Prem Annc Access To Customer Premises Announcement Access To Order Entry System Alternate Routing Answer Supv'n Line Side Asyn Tran Mode (ATM) Svc Asynchronous Transfer Mode (ATM) Service Auto Disaster Rec. DID Automatic Caliback Automatic Caliback Automatic Caliback Automatic Protect Swtchg Automatic Protection Switching Automatic Protect Swtchg Automatic Protect Swtchg Automatic Protection Switching Automatic Protect Swtchg Automatic Protection Switching Automatic Protect Swtchg Automatic Protection Switched Line BSA C1 Typ8 - Ckt Sw Line Category 1, Type A - Circuit Switched Line BSA C1 Typ8 - Ckt Sw Trunk Category 1, Type B - Circuit Switched Line BSA C2 Typ8 - X.75 Pkt Sw Category 2, Type B - X.25 Packet Switched BSA C3 Typ4 - Ded Metallic Category 3, Type B - Dedicated Metallic BSA C3 Typ6 - Ded Voice Grd Category 3, Type B - Dedicated Program Audio BSA C3 Typ6 - Ded Voice Grd Category 3, Type C - Dedicated Program Audio BSA C3 Typ6 - Ded Voice Grd Category 3, Type C - Dedicated Program Audio BSA C3 Typ6 - Ded Video Category 3, Type C - Dedicated Digital (SeAkbps)BSA C3 Typ6 - Ded SeAkbps Category 3, Type D - Dedicated Digital (SeAkbps)BSA C3 Typ6 - Ded SeAkbps Category 3, Type D - Dedicated Digital (SeAkbps)BSA C3 Typ6 - Ded SeAkbps Category 3, Type D - Dedicated Digital (SeAkbps)BSA C3 Typ6 - Ded SeAkbps Category 3, Type D - Dedicated Digital (SeAkbps)BSA C3 Typ6 - Ded SeAkbps Category 3, Type D - Dedicated Digital (SeAkbps)BSA C3 Typ6 - Ded SeAkbps Category 3, Type D - Dedicated Digital (SeAkbps)BSA C3 Typ6 - Ded SeAkbps Category 3, Type D - Dedi	555 Access Service	555 Access Service
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Answer Supv'n Line Side Asyn Tran Mode (ATM) Svc Asynchronous Transfer Mode (ATM) Service Auto Disaster Rec. DID Automatic Callback Automatic Protect Swtchg Automatic Protect Swtchg Automatic Recall Bridging Bridging Bridging Bridging - Line C1 TypA - Ckt Sw Line C1 TypA - Ckt Sw Trunk Category 1, Type A - Circuit Switched Line BSA C2 TypA - X.25 Pkt Sw Category 2, Type B - Circuit Switched Trunk BSA C2 TypA - X.75 Pkt Sw Category 2, Type B - X.75 Packet Switched BSA C3 TypA - Ded Metallic C3 TypA - Ded Vicice Grd C3 TypC - Ded Vicice Grd C3 TypD - Ded Prgm Audio C3 TypE - Ded Vice C3 TypB - Ded Celebys C3 TypB - Ded Celebys C3 TypB - Ded Telegraph Category 3, Type C - Dedicated Vicice BSA C3 TypC - Ded Vice C3 TypB - Ded Telegraph Category 3, Type D - Dedicated Plegraph BSA C3 TypC - Ded Vice C3 TypB - Ded Telegraph Category 3, Type C - Dedicated Program Audio BSA C3 TypB - Ded Telegraph Category 3, Type D - Dedicated Program Audio BSA C3 TypB - Ded Sed Vice Category 3, Type C - Dedicated Program Audio BSA C3 TypB - Ded Sed Vice Category 3, Type D - Dedicated Program Audio BSA C3 TypB - Ded Sed Vice Category 3, Type D - Dedicated Program Audio BSA C3 TypB - Ded Sed Vice Category 3, Type D - Dedicated Program Audio BSA C3 TypB - Ded Sed Vice Category 3, Type B - Dedicated Digital (Sed Vice) Category 3, Type B - Dedicated High Capacity Digital (Sed Vice) Category 3, Type B - Dedicated High Capacity Digital (Sed Vice) Category 3, Type B - Dedicated Digital (Sed Vice) Category 3, Type B - Dedicated Digital (Sed Vice) Category 3, Type B - Dedicated Digital (Sed Vice) Category 3, Type B - Dedicated Digital (Sed Vice) Category 3, Type B - Dedicated Digital (Sed Vice) Category 3, Type B - Dedicated Digital (Sed Vice) Category 3, Type B - Dedicated Digital (Sed Vice) Category 3, Type B - Dedicated Digital (Sed Vice) Category 3, Type B - Dedicated Digital (Sed Vice) Category 3, Type B - Dedicated Digital (Sed Vice) Category 3, Type B - Dedicated Digital (Sed Vice) Category 3, Type B - Dedicated Digital (Sed Vice) Catego	Access to Ordr Entry Sys	Access To Order Entry System
Asyn Tran Mode (ATM) Svc Automatic Disaster Rec. DID Automatic Disaster Recovery of DID Automatic Callback Automatic Protect Swichg Automatic Protect Swichg Automatic Protect Swichg Automatic Recall Bridging Bridging Bridging - Line C1 TypA - Ckt Sw Line C1 TypA - Ckt Sw Trunk Category 1, Type A - Circuit Switched Line BSA C1 TypB - Ckt Sw Trunk Category 1, Type B - Circuit Switched Trunk BSA C2 TypB - X.75 Pkt Sw Category 2, Type B - X.75 Packet Switched BSA C3 TypA - Ded Metallic C3 TypB - Ded Telegraph Category 3, Type C - Dedicated Metallic BSA C3 TypC - Ded Voice Grd C3 TypD - Ded Prgm Audio C3 TypE - Ded Video C3 TypB - Ded Cedeby C3 TypB - Ded Sed Switched C3 TypB - Ded Sed Switch	Alternate Routing	
Automatic Callback Automatic Callback Automatic Protect Swtchg Automatic Protection Switching Automatic Recall Bridging Bridging Bridging - Line C1 TypA - Ckt Sw Line C1 TypB - Ckt Sw Trunk Category 1, Type A - Circuit Switched Line BSA C2 TypA - X.25 Pkt Sw Category 2, Type B - Circuit Switched Trunk BSA C2 TypB - X.75 Pkt Sw Category 3, Type B - X.75 Packet Switched BSA C3 TypB - Ded Metallic Category 3, Type B - Dedicated Metallic BSA C3 TypB - Ded Voice Grd Category 3, Type B - Dedicated Program Audio BSA C3 TypD - Ded Prgm Audio Category 3, Type D - Dedicated Program Audio BSA C3 TypB - Ded Category 3, Type D - Dedicated Voice Grade BSA C3 TypB - Ded Video Category 3, Type F - Dedicated Video BSA C3 TypB - Ded Sklps Category 3, Type F - Dedicated Program Audio BSA C3 TypB - Ded Sklps Category 3, Type F - Dedicated Video BSA C3 TypB - Ded Sklps Category 3, Type F - Dedicated Program Audio BSA C3 TypB - Ded Sklps Category 3, Type F - Dedicated Program Audio BSA C3 TypB - Ded Sklps Category 3, Type F - Dedicated Program Audio BSA C3 TypB - Ded Sklps Category 3, Type F - Dedicated Program Audio BSA C3 TypB - Ded Sklps Category 3, Type F - Dedicated High Capacity Digital (1.544 Mbps) BSA C3 TypH - Ded Sl.544Mbps Category 3, Type F - Dedicated High Capacity Digital (1.544 Mbps) BSA C3 TypJ - Ded Derived Ch Category 3, Type J - Dedicated Digital (46 kbps) BSA C3 TypJ - Ded Derived Ch Category 3, Type J - Dedicated Digital (50 kbps) BSA C3 TypJ - Ded Derived Ch Category 3, Type J - Dedicated Digital (50 kbps) BSA C3 TypJ - Ded Sklps Category 3, Type J - Dedicated Digital (50 kbps) BSA C3 TypJ - Ded Sklps Category 3, Type J - Dedicated Digital (50 kbps) BSA C3 TypJ - Ded Sklps Category 3, Type J - Dedicated Digital (50 kbps) BSA C3 TypJ - Ded Sklps Category 3, Type J - Dedicated Digital (50 kbps) BSA C3 TypJ - Ded Sklps Category 3, Type J - Dedicated Digital (50 kbps) BSA C3 TypJ - Ded Sklps C4 - Ded Ntwk Access Link C4 - Ded Ntwk Access Link C5 Var Remote Act/Cntol C6 II Forwarding - Variable - Activation Without	Answer Supv'n Line Side	Answer Supervision With A Line Side Interface
Automatic Protect Swtchg Automatic Protect Swtchg Automatic Protection Switching Automatic Recall Bridging BSA Category 3, Type B - Cedicated Metallic BSA Category 3, Type F - Dedicated Digital (<64kbps)BSA Category 3, Type F - Dedicated Alert Transport BSA Category 3, Type F - Dedicated Alert Transport BSA Category 3, Type F - Dedicated Derived Channel BSA Category 3, Type F - Dedicated Digital (64 kbps) BSA Category 3, Type F - Dedicated Digital (64 kbps) BSA Category 3, Type F - Dedicated Network Access Link BSA Category 4 - Dedicated Net	Asyn Tran Mode (ATM) Svc	
Automatic Protection Switching Automatic Recall Bridging Bridging - Line C1 TypA - Ckt Sw Line Category 1, Type A - Circuit Switched Line BSA C1 TypB - Ckt Sw Trunk Category 1, Type B - Circuit Switched Trunk BSA C2 TypB - X.25 Pkt Sw Category 2, Type B - X.25 Packet Switched BSA C3 TypB - X.75 Pkt Sw Category 2, Type B - X.75 Packet Switched BSA C3 TypB - Ded Metallic Category 3, Type B - Dedicated Metallic BSA C3 TypB - Ded Telegraph Category 3, Type B - Dedicated Voice Grade BSA C3 TypD - Ded Pgm Audio Category 3, Type D - Dedicated Program Audio BSA C3 TypF - Ded Voice Grd Category 3, Type D - Dedicated Program Audio BSA C3 TypF - Ded Voice Grd Category 3, Type F - Dedicated Voice BSA C3 TypF - Ded Selkbps Category 3, Type F - Dedicated Program Audio BSA C3 TypF - Ded Selkbps Category 3, Type F - Dedicated Program Audio BSA C3 TypF - Ded Selkbps Category 3, Type F - Dedicated High Capacity Digital (-544 Mbps) BSA C3 TypH - Ded >1.544Mbps Category 3, Type F - Dedicated High Capacity Digital (1.544 Mbps) BSA C3 TypJ - Ded Ded Derived Ch Category 3, Type I - Dedicated Alert Transport BSA C3 TypJ - Ded Derived Ch Category 3, Type I - Dedicated Derived Channel BSA C3 TypJ - Ded Derived Ch Category 3, Type F - Dedicated Derived Channel BSA C3 TypJ - Ded Derived Ch Category 3, Type F - Dedicated Derived Channel BSA C3 TypK - Ded 64 kbps Category 3, Type F - Dedicated Derived Channel BSA C3 TypK - Ded Othwk Accss Link Category 3, Type F - Dedicated Derived Channel BSA C4 - Ded Ntwk Accss Link Category 4 - Dedicated Network Access Link BSA CF Mult Sim Call Intersw Call Forwarding - Multiple Simultaneous Calls Interswitch CF Var Remote Act/Cntrol Call Forwarding - Variable - Activation Without Courtesy Call CF Var Remote Act/Cntrol Call Forwarding - Busy Line Interswitch CFBL/DA Cust Act/Deact Call Forwarding - Busy Line Interswitch CFBL/DA Cust Act/Deact Call Forwarding - Busy Line Interswitch CFBL/DA Cust Act/Deact Control of Activation/Deactivation	Auto Disaster Rec. DID	Automatic Disaster Recovery of DID
Automatic Recall Bridging Bridging - Line Bridging - Line C1 TypA - Ckt Sw Line C1 TypB - Ckt Sw Trunk Category 1, Type B - Circuit Switched Line BSA C1 TypB - Ckt Sw Trunk Category 1, Type B - Circuit Switched Trunk BSA C2 TypA - X.25 Pkt Sw Category 2, Type B - X.75 Packet Switched BSA C3 TypB - Ded Metallic Category 3, Type B - Dedicated Metallic BSA C3 TypB - Ded Telegraph C3 TypB - Ded Voice Grd Category 3, Type B - Dedicated Telegraph BSA C3 TypD - Ded Prgm Audio C3 TypC - Ded Video C3 TypE - Ded Video C3 TypF - Ded - Eddicated Video BSA C3 TypF - Ded - Eddicated Video BSA C3 TypF - Ded - Eddicated Video BSA C3 TypG - Ded 1.544Mbps Category 3, Type B - Dedicated Digital (-64kbps)BSA C3 TypH - Ded > 1.544Mbps Category 3, Type G - Dedicated High Capacity Digital (1.544 Mbps) BSA C3 TypJ - Ded Alrt Trnsp Category 3, Type I - Dedicated Alert Transport BSA C3 TypJ - Ded Derived Ch Category 3, Type I - Dedicated Derived Channel BSA C3 TypK - Ded 64 kbps Category 3, Type J - Dedicated Digital (64 kbps) BSA C3 TypK - Ded Derived Ch Category 3, Type J - Dedicated Derived Channel BSA C3 TypK - Ded 64 kbps Category 3, Type J - Dedicated Digital (64 kbps) BSA C3 TypK - Ded Serived Ch Category 3, Type J - Dedicated Derived Channel BSA C3 TypK - Ded Serived Ch Category 3, Type J - Dedicated Derived Channel BSA C3 TypK - Ded Serived Ch Category 3, Type J - Dedicated Derived Channel BSA C3 TypK - Ded Serived Ch Category 3, Type J - Dedicated Network Access Link BSA C4 - Ded Ntwk Access Link Category 3, Type J - Dedicated Network Access Link BSA C5 TypK - Ded Serived Ch Call Forwarding - Variable - Activation Without Courtesy Call CF Var Remote Act/Cntrol Call Forwarding - Variable Rings CBL Interswitch Call Forwarding - Busy Line Interswitch CFBL/DA Cust Act/Deact Call Forwarding - Busy Line Interswitch CFBL/DA Cust Act/Deact Call Forwarding - Busy Line Interswitch	Automatic Callback	Automatic Callback
Bridging - Line Bridging - Line Category 1, Type A - Circuit Switched Line BSA C1 TypB - Ckt Sw Trunk Category 1, Type B - Circuit Switched Trunk BSA C2 TypB - X.25 Pkt Sw Category 2, Type B - Circuit Switched BSA C2 TypB - X.25 Pkt Sw Category 2, Type B - X.25 Packet Switched BSA C2 TypB - X.75 Pkt Sw Category 2, Type B - X.75 Packet Switched BSA C3 TypA - Ded Metallic Category 3, Type A - Dedicated Metallic BSA C3 TypB - Ded Telegraph Category 3, Type B - Dedicated Telegraph BSA C3 TypC - Ded Voice Grd Category 3, Type D - Dedicated Program Audio BSA C3 TypC - Ded Prgm Audio Category 3, Type D - Dedicated Voice Grade BSA C3 TypE - Ded Video Category 3, Type E - Dedicated Video BSA C3 TypF - Ded < 64kbps Category 3, Type F - Dedicated Digital (<64kbps)BSA C3 TypG - Ded 1.544Mbps Category 3, Type G - Dedicated High Capacity Digital (1.544 Mbps)BSA C3 TypI - Ded Alrt Trnsp Category 3, Type H - Dedicated High Capacity Digital (>1.544 Mbps)BSA C3 TypI - Ded Alrt Trnsp Category 3, Type J - Dedicated Derived Channel BSA C3 TypJ - Ded Derived Ch Category 3, Type J - Dedicated Derived Channel BSA C3 TypJ - Ded Serived Ch Category 3, Type J - Dedicated Derived Channel BSA C3 TypJ - Ded Serived Ch Category 3, Type J - Dedicated Derived Channel BSA C3 TypJ - Ded Serived Ch Category 3, Type K - Dedicated Digital (64 kbps) BSA C4 - Ded Ntwk Accss Link Category 4 - Dedicated Network Access Link BSA CF Mult Sim Call Intersw Call Forwarding - Variable - Activation Without Courtesy Call CF Var Act w/o Crtsy Cal CF Var Remote Act/Cntrol Call Forwarding - Variable - Activation Without Courtesy Call Forwarding - Variable Rings CFBL Interswitch Call Forwarding - Busy Line Interswitch CFBL/DA Cust Act/Deact Call Forwarding - Busy Line Interswitch CFBL/DA Cust Act/Deact Call Forwarding - Busy Line Interswitch CFBL/DA Cust Act/Deact Call Forwarding - Busy Line Interswitch	Automatic Protect Swtchg	Automatic Protection Switching
Bridging - Line C1 TypA - Ckt Sw Line C1 TypB - Ckt Sw Line C2 TypA - Sw Category 1, Type A - Circuit Switched Line BSA C2 TypA - X.25 Pkt Sw C2 TypA - X.25 Pkt Sw C2 TypB - X.75 Pkt Sw C2 TypA - Ded Metallic C3 TypA - Ded Metallic C3 TypA - Ded Voice Grd C3 TypD - Ded Prgm Audio C3 TypC - Ded Video C3 TypE - Ded Video C3 TypE - Ded Video C3 TypE - Ded Set Sw Category 3, Type B - Dedicated Video BSA C3 TypF - Ded Set Sw Category 3, Type F - Dedicated Video BSA C3 TypF - Ded Set Sw Category 3, Type F - Dedicated Video BSA C3 TypF - Ded Set Sw Category 3, Type F - Dedicated Video BSA C3 TypF - Ded Set Sw Category 3, Type F - Dedicated Video BSA C3 TypF - Ded Set Sw Category 3, Type F - Dedicated Video BSA C3 TypF - Ded Set Sw Category 3, Type F - Dedicated Video BSA C3 TypF - Ded Set Sw Category 3, Type F - Dedicated High Capacity Digital (54kbps) BSA C3 TypH - Ded Set Set Sw Category 3, Type F - Dedicated High Capacity Digital (1.544 Mbps) BSA C3 TypF - Ded Set Sw Category 3, Type I - Dedicated Alert Transport BSA C3 TypF - Ded Derived Ch C3 TypF - Ded Derived Ch C3 TypF - Ded Set Sw Category 3, Type I - Dedicated Derived Channel BSA C3 TypF - Ded Set Sw Category 3, Type I - Dedicated Derived Channel BSA C3 TypF - Ded Sw Category 3, Type I - Dedicated Derived Channel BSA C3 TypK - Ded Sw Category 3, Type J - Dedicated Derived Channel BSA C3 TypK - Ded Sw Category 3, Type K - Dedicated Derived Channel BSA C3 TypK - Ded Sw Category 4 - Dedicated Network Access Link BSA C4 - Ded Ntwk Accss Link C5 War Act W/o Crtsy Cal C6 With Variable Rings C7 With Variable Rings C8 Call Forwarding - Busy Line Interswitch C7 War Call Forwarding - Busy Line Interswi	Automatic Recall	Automatic Recall
C1 TypA - Ckt Sw Line C1 TypB - Ckt Sw Trunk C2 TypA - X.25 Pkt Sw C2 TypA - X.25 Pkt Sw C2 TypB - X.75 Pkt Sw C3 TypA - Ded Metallic C3 TypA - Ded Metallic C3 TypB - Ded Telegraph C3 TypB - Ded Telegraph C3 TypC - Ded Voice Grd C3 TypD - Ded Prgm Audio C3 TypE - Ded Video C3 TypE - Ded Video C3 TypF - Ded < 64kbps C3 TypB - Ded 1.544Mbps C3 TypB - Ded 1.544Mbps C3 TypB - Ded 3.544Mbps C3 TypB - Ded Alrt Trnsp Category 3, Type B - Dedicated High Capacity Digital (>1.544 Mbps) BSA C3 TypJ - Ded Alrt Trnsp Category 3, Type B - Dedicated Alert Transport BSA C3 TypB - Ded Alrt Trnsp Category 3, Type B - Dedicated Alert Transport BSA C3 TypB - Ded Alrt Trnsp Category 3, Type B - Dedicated Derived Channel BSA C3 TypK - Ded 64 kbps C3 TypK - Ded Alrt Trnsp Category 3, Type B - Dedicated Derived Channel BSA C3 TypK - Ded Serived Ch C3 TypK - Dedicated Network Access Link BSA C4 - Ded Ntwk Accss Link C4 - Ded Ntwk Accss Link C5 War Act w/o Crtsy Cal C6 War Act w/o Crtsy Cal C7 War Remote Act/Cntrol C8 Var Remote Act/Cntrol C9 Call Forwarding - Variable Remote Activation/Control C6 Var Remote Act/Cntrol C6 Call Forwarding - Variable Rings C7 Lall Forwarding - Busy Line Interswitch C6 Call Forwarding - Busy Line Interswitch C6 Call Forwarding - Busy Line Interswitch C7 Call Forwarding - Busy Line Interswitch C6 Call Forwarding - Busy Line Interswitch C7 Call Forwarding - Busy Line Interswitch C7 Call Forwarding - Busy Line Interswitch	Bridging	Bridging
C1 TypB - Ckt Sw Trunk C2 TypA - X.25 Pkt Sw C2 TypB - X.75 Pkt Sw C3 TypB - X.75 Pkt Sw C3 TypA - Ded Metallic C3 TypB - Ded Telegraph C3 TypB - Ded Telegraph C3 TypB - Ded Telegraph C3 TypD - Ded Prgm Audio C3 TypD - Ded Prgm Audio C3 TypF - Ded Video C3 TypF - Ded Video C3 TypF - Ded < 64kbps C3 TypF - Ded < 5.544Mbps C3 TypH - Ded > 1.544Mbps C3 TypH - Ded > 1.544Mbps C3 TypH - Ded > 1.544Mbps C3 TypH - Ded Alrt Trnsp C3 TypH - Ded Serviced Ch C4 Serviced Ch C4 Serviced Ch C5 Serviced Ch C6 Serviced Ch	Bridging - Line	Bridging - Line
C1 TypB - Ckt Sw Trunk C2 TypA - X.25 Pkt Sw C2 TypB - X.75 Pkt Sw C3 TypB - X.75 Pkt Sw C3 TypA - Ded Metallic C3 TypB - Ded Telegraph C3 TypB - Ded Telegraph C3 TypB - Ded Telegraph C3 TypD - Ded Prgm Audio C3 TypD - Ded Prgm Audio C3 TypF - Ded Video C3 TypF - Ded Video C3 TypF - Ded < 64kbps C3 TypF - Ded < 5.544Mbps C3 TypH - Ded > 1.544Mbps C3 TypH - Ded > 1.544Mbps C3 TypH - Ded > 1.544Mbps C3 TypH - Ded Alrt Trnsp C3 TypH - Ded Serviced Ch C4 Serviced Ch C4 Serviced Ch C5 Serviced Ch C6 Serviced Ch	C1 TypA - Ckt Sw Line	Category 1, Type A - Circuit Switched Line BSA
C2 TypA - X.25 Pkt Sw C2 TypB - X.75 Pkt Sw C2 TypB - X.75 Pkt Sw C3 TypA - Ded Metallic C3 TypB - Ded Telegraph C3 TypC - Ded Voice Grd C3 TypD - Ded Prgm Audio C3 TypD - Ded Prgm Audio C3 TypE - Ded Video C3 TypF - Ded < 64kbps C3 TypG - Ded 1.544Mbps C3 TypG - Ded 1.544Mbps C3 TypH - Ded > 1.544Mbps C3 TypH - Ded > 1.544Mbps C3 TypJ - Ded Alrt Trnsp Category 3, Type B - Dedicated High Capacity Digital (>1.544 Mbps) BSA C3 TypJ - Ded Alrt Trnsp Category 3, Type I - Dedicated High Capacity Digital (>1.544 Mbps) BSA C3 TypJ - Ded Alrt Trnsp Category 3, Type I - Dedicated Derived Ch C3 TypJ - Ded 64 kbps C3 TypJ - Ded Oberived Ch C3 TypJ - Ded Oberived Ch C3 TypJ - Ded Served Ch C4 - Ded Ntwk Accss Link C4 - Ded Ntwk Accss Link C5 TypJ - Ded Served Ch C5 Var Act w/o Crtsy Cal C6 Call Forwarding - Multiple Simultaneous Calls Interswitch C6 Var Remote Act/Cntrol C6 Call Forwarding - Variable Rings C6 Call Forwarding - Variable Rings C7 With Variable Rings C6 Call Forwarding - Busy Line Interswitch C7 Served Call Forwarding - Busy Line Interswitch C7 Served Call Forwarding - Busy Line Interswitch C6 Call Forwarding - Busy Line Interswitch C7 Served Call Forwarding - Busy Line or Don't Answer - Customer C7 Control of Activation/Deactivation		Category 1, Type B - Circuit Switched Trunk BSA
C2 TypB - X.75 Pkt Sw C3 TypA - Ded Metallic C3 TypB - Ded Telegraph C3 TypC - Ded Voice Grd C3 TypD - Ded Prgm Audio C3 TypD - Ded Prgm Audio C3 TypE - Ded Video C3 TypF - Ded Video C3 TypF - Ded Set	C2 TypA - X.25 Pkt Sw	
C3 TypA - Ded Metallic C3 TypB - Ded Telegraph C3 TypC - Ded Voice Grd C3 TypD - Ded Prgm Audio C3 TypD - Ded Prgm Audio C3 TypE - Ded Video C3 TypF - Ded Video C3 TypF - Ded < 64kbps C3 TypF - Ded 1.544Mbps C3 TypH - Ded 1.544Mbps C3 TypH - Ded >1.544Mbps C3 TypH - Ded Airt Trnsp Category 3, Type H - Dedicated High Capacity Digital (>1.544 Mbps) BSA C3 TypJ - Ded Derived Ch C3 TypH - Ded Derived Ch C3 TypK - Ded 64 kbps C3 TypK - Ded 64 kbps C3 TypK - Ded 64 kbps C4 - Ded Ntwk Accss Link C5 TypK - Ded Sink Category 3, Type K - Dedicated Derived Channel BSA C6 TypK - Ded Sink Category 4 - Dedicated Network Access Link BSA C6 Mult Sim Call Intersw C6 Mult Sim Call Intersw C7 Var Act w/o Crtsy Cal C7 Var Remote Act/Cntrol C8 Var Remote Act/Cntrol C8 Call Forwarding - Variable - Activation Without Courtesy Call C7 Variable C8 Call Forwarding - Busy Line Interswitch C6 Call Forwarding - Busy Line Interswitch C7 Call Forwarding - Busy Line Interswitch C6 Call Forwarding - Busy Line Interswitch C7 Call Forwarding - Busy Line Interswitch C7 Call Forwarding - Busy Line Interswitch C7 Call Forwarding - Busy Line Interswitch C8 Call Forwarding - Busy Line Interswitch C8 Call Forwarding - Busy Line or Don't Answer - Customer C8 Control of Activation/Deactivation		
C3 TypB - Ded Telegraph C3 TypC - Ded Voice Grd Category 3, Type B - Dedicated Telegraph BSA C3 TypD - Ded Prgm Audio C3 TypD - Ded Prgm Audio C3 TypE - Ded Video Category 3, Type E - Dedicated Video BSA C3 TypF - Ded < 64kbps C3 TypG - Ded 1.544Mbps C3 TypH - Ded 1.544Mbps C3 TypH - Ded > 1.544Mbps C3 TypH - Ded Airt Trnsp Category 3, Type I - Dedicated High Capacity Digital (>1.544Mbps) BSA C3 TypJ - Ded Derived Ch Category 3, Type I - Dedicated Alert Transport BSA C3 TypK - Ded 64 kbps Category 3, Type J - Dedicated Derived Channel BSA C3 TypK - Ded 64 kbps Category 3, Type K - Dedicated Digital (64 kbps) BSA C4 - Ded Ntwk Accss Link Category 4 - Dedicated Network Access Link BSA CF Mult Sim Call Intersw Call Forwarding - Multiple Simultaneous Calls Interswitch CF Var Act w/o Crtsy Cal Call Forwarding - Variable - Activation Without Courtesy Call CF Variable CF With Variable Rings CFBL Interswitch Call Forwarding - Busy Line Interswitch CFBL Interswitch Call Forwarding - Busy Line Interswitch CFBL Intraswitch Call Forwarding - Busy Line Intraswitch CFBL Intraswitch Call Forwarding - Busy Line or Don't Answer - Customer Control of Activation/Deactivation/		
C3 TypC - Ded Voice Grd C3 TypD - Ded Prgm Audio C3 TypD - Ded Prgm Audio C3 TypE - Ded Video C3 TypF - Ded < 64kbps C3 TypF - Ded < 64kbps C3 TypG - Ded 1.544Mbps C3 TypG - Ded 1.544Mbps C3 TypH - Ded >1.544Mbps C3 TypH - Ded >1.544Mbps C3 TypH - Ded >1.544Mbps C3 TypJ - Ded Airt Trnsp C3 TypJ - Ded Airt Trnsp C3 TypJ - Ded Derived Ch C3 TypJ - Ded Derived Ch C3 TypK - Ded 64 kbps C3 TypK - Ded Strike C3 TypK - Ded Ged Kapps C3 TypK - Ded Strike C4 - Ded Ntwk Accss Link C5 Mult Sim Call Intersw C6 With Sim Call Intersw C7 Var Act w/o Crtsy Cal C8 Call Forwarding - Variable - Activation Without Courtesy Call C8 Var Remote Act/Cntrol C9 Variable C9 With Variable Rings C6 Call Forwarding - Wariable Rings C7 Call Forwarding - Busy Line Interswitch C7 Call Forwarding - Busy Line Interswitch C6 Call Forwarding - Busy Line Interswitch C7 Call Forwarding - Busy Line Interswitch C6 Call Forwarding - Busy Line Interswitch C7 Call Forwarding - Busy Line or Don't Answer - Customer C6 Call Forwarding - Busy Line or Don't Answer - Customer C6 Control of Activation/Deactivation		
C3 TypD - Ded Prgm Audio C3 TypE - Ded Video C3 TypF - Ded < 64kbps C3 TypF - Ded < 64kbps C3 TypG - Ded 1.544Mbps C3 TypG - Ded 1.544Mbps C3 TypH - Ded > 1.544Mbps C3 TypH - Ded Alrt Trnsp Category 3, Type H - Dedicated High Capacity Digital (>1.544Mbps) BSA C3 TypH - Ded Alrt Trnsp Category 3, Type I - Dedicated Alert Transport BSA C3 TypJ - Ded Derived Ch C3 TypJ - Ded Derived Ch C3 TypK - Ded 64 kbps Category 3, Type J - Dedicated Derived Channel BSA C3 TypK - Ded 64 kbps Category 3, Type J - Dedicated Digital (64 kbps) BSA C4 - Ded Ntwk Accss Link Category 4 - Dedicated Network Access Link BSA CF Mult Sim Call Intersw Call Forwarding - Multiple Simultaneous Calls Interswitch CF Var Act w/o Crtsy Cal Call Forwarding - Variable - Activation Without Courtesy Call CF Var Remote Act/Cntrol Call Forwarding - Variable Rings CFBL Interswitch Call Forwarding - Busy Line Interswitch CFBL Intraswitch Call Forwarding - Busy Line Interswitch CFBL Intraswitch Call Forwarding - Busy Line or Don't Answer - Customer Control of Activation/Deactivation		
C3 TypF - Ded < 64kbps C3 TypG - Ded 1.544Mbps Category 3, Type G - Dedicated High Capacity Digital (1.544 Mbps) BSA C3 TypH - Ded > 1.544Mbps C3 TypH - Ded > 1.544Mbps C3 TypH - Ded > 1.544Mbps C3 TypI - Ded Alrt Trnsp Category 3, Type H - Dedicated High Capacity Digital (>1.544 Mbps) BSA C3 TypJ - Ded Derived Ch Category 3, Type J - Dedicated Alert Transport BSA C3 TypJ - Ded Derived Ch Category 3, Type J - Dedicated Derived Channel BSA C3 TypK - Ded 64 kbps Category 3, Type K - Dedicated Digital (64 kbps) BSA C4 - Ded Ntwk Accss Link Category 4 - Dedicated Network Access Link BSA CF Mult Sim Call Intersw Call Forwarding - Multiple Simultaneous Calls Interswitch CF Var Act w/o Crtsy Cal Call Forwarding - Variable - Activation Without Courtesy Call CF Var Remote Act/Cntrol Call Forwarding - Variable CF With Variable Rings CFBL Interswitch Call Forwarding - Busy Line Interswitch CFBL Intraswitch Call Forwarding - Busy Line Intraswitch CFBL/DA Cust Act/Deact Call Forwarding - Busy Line or Don't Answer - Customer Control of Activation/Deactivation		
C3 TypG - Ded 1.544Mbps Category 3, Type G - Dedicated High Capacity Digital (1.544 Mbps) BSA C3 TypH - Ded >1.544Mbps Category 3, Type H - Dedicated High Capacity Digital (>1.544 Mbps) BSA C3 TypI - Ded Alrt Trnsp Category 3, Type I - Dedicated Alert Transport BSA C3 TypJ - Ded Derived Ch Category 3, Type J - Dedicated Derived Channel BSA C3 TypK - Ded 64 kbps Category 3, Type K - Dedicated Digital (64 kbps) BSA C4 - Ded Ntwk Accss Link Category 4 - Dedicated Network Access Link BSA CF Mult Sim Call Intersw Call Forwarding - Multiple Simultaneous Calls Interswitch CF Var Act w/o Crtsy Cal Call Forwarding - Variable - Activation Without Courtesy Call CF Variable CF With Variable Rings Call Forwarding - Variable Rings CFBL Interswitch Call Forwarding - Busy Line Interswitch CFBL Intraswitch Call Forwarding - Busy Line Intraswitch CFBL/DA Cust Act/Deact Call Forwarding - Busy Line or Don't Answer - Customer Control of Activation/Deactivation		Category 3, Type E - Dedicated Video BSA
Mbps) BSA C3 TypH - Ded >1.544Mbps Category 3, Type H - Dedicated High Capacity Digital (>1.544 Mbps) BSA C3 TypI - Ded Alrt Trnsp Category 3, Type I - Dedicated Alert Transport BSA C3 TypJ - Ded Derived Ch Category 3, Type J - Dedicated Derived Channel BSA C3 TypK - Ded 64 kbps Category 3, Type K - Dedicated Digital (64 kbps) BSA C4 - Ded Ntwk Accss Link Category 4 - Dedicated Network Access Link BSA C5 Mult Sim Call Intersw Call Forwarding - Multiple Simultaneous Calls Interswitch C6 Var Act w/o Crtsy Cal C7 Var Remote Act/Cntrol C8 Variable C9 Variable C9 With Variable Rings C9 Variable Call Forwarding - Variable Rings C9 Variable Call Forwarding - Busy Line Interswitch C6 C7 Variable Call Forwarding - Busy Line Intraswitch C7 CALL Forwarding - Busy Line Intraswitch C8 CALL Forwarding - Busy Line Intraswitch C9 CALL Forwarding - Busy Line or Don't Answer - Customer Control of Activation/Deactivation	C3 TypF - Ded < 64kbps	Category 3, Type F - Dedicated Digital (<64kbps)BSA
C3 TypH - Ded >1.544Mbps Category 3, Type H - Dedicated High Capacity Digital (>1.544 Mbps) BSA C3 TypI - Ded Airt Trnsp Category 3, Type I - Dedicated Alert Transport BSA C3 TypJ - Ded Derived Ch C3 TypK - Ded 64 kbps Category 3, Type J - Dedicated Derived Channel BSA C3 TypK - Ded 64 kbps Category 3, Type K - Dedicated Digital (64 kbps) BSA C4 - Ded Ntwk Accss Link Category 4 - Dedicated Network Access Link BSA CF Mult Sim Call Intersw Call Forwarding - Multiple Simultaneous Calls Interswitch CF Var Act w/o Crtsy Cal Call Forwarding - Variable - Activation Without Courtesy Call CF Variable CF With Variable Rings CFBL Interswitch Call Forwarding - Busy Line Interswitch CFBL Intraswitch Call Forwarding - Busy Line Intraswitch CAll Forwarding - Busy Line Intraswitch Call Forwarding - Busy Line or Don't Answer - Customer Control of Activation/Deactivation	C3 TypG - Ded 1.544Mbps	
C3 Typl - Ded Alrt Trnsp Category 3, Type I - Dedicated Alert Transport BSA C3 TypJ - Ded Derived Ch C3 TypK - Ded 64 kbps Category 3, Type K - Dedicated Derived Channel BSA C4 - Ded Ntwk Accss Link C5 Mult Sim Call Intersw C6 Call Forwarding - Multiple Simultaneous Calls Interswitch C6 Var Act w/o Crtsy Cal C7 Var Remote Act/Cntrol C8 Variable C9 With Variable Rings C9 With Variable Rings C9 Call Forwarding - Variable Rings C9 Call Forwarding - Variable Rings C9 Call Forwarding - Busy Line Interswitch C9 Call Forwarding - Busy Line Intraswitch C9 Call Forwarding - Busy Line Intraswitch C9 Call Forwarding - Busy Line On the Intraswitch C9 Call Forwarding - Busy Line Intraswitch C9 Call Forwarding - Busy Line On the Intraswitch C9 Call Forwarding - Call For	C3 TypH - Ded >1.544Mbps	Category 3, Type H - Dedicated High Capacity Digital (>1.544
C3 TypJ - Ded Derived Ch C3 TypK - Ded 64 kbps Category 3, Type K - Dedicated Digital (64 kbps) BSA C4 - Ded Ntwk Accss Link C5 Mult Sim Call Intersw C6 Var Act w/o Crtsy Cal C7 Var Remote Act/Cntrol C8 Variable C9 Variable C9 Variable C9 Variable C9 Variable C9 Variable C9 Variable C1 Call Forwarding - Variable Rings C9 Variable C9 Variable C9 Variable C9 Variable C9 Variable C9 Variable C1 Call Forwarding With Variable Rings C9 Call Forwarding - Busy Line Interswitch C9 Call Forwarding - Busy Line Intraswitch C9 Call Forwarding - Busy Line Intraswitch C9 Call Forwarding - Busy Line or Don't Answer - Customer C9 Control of Activation/Deactivation/Deactivation	C3 Typl - Ded Airt Trnsp	
C3 TypK - Ded 64 kbps C4 - Ded Ntwk Accss Link C4 - Ded Ntwk Accss Link C5 Mult Sim Call Intersw C6 Var Act w/o Crtsy Cal C6 Var Remote Act/Cntrol C7 Variable C8 Variable C9 Variable C9 Variable C9 Variable C9 Variable C9 Variable C1 Call Forwarding - Variable - Activation Without Courtesy Call C9 Variable C9 Variable C9 Variable C1 Call Forwarding - Variable C9 Variable C9 Variable C9 Variable C1 Call Forwarding With Variable Rings C9 Call Forwarding - Busy Line Interswitch C9 Call Forwarding - Busy Line Intraswitch C9 Call Forwarding - Busy Line or Don't Answer - Customer C9 Call Forwarding - Busy Line or Don't Answer - Control of Activation/Deactivation		
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CF Var Act w/o Crtsy Cal CF Var Remote Act/Cntrol CF Var Remote Act/Cntrol CF Variable CF Variable CF With Variable Rings CFBL Interswitch CFBL Intraswitch CFBL/DA Cust Act/Deact CAll Forwarding - Variable - Activation Without Courtesy Call Call Forwarding - Variable-Remote Activation/Control Call Forwarding - Variable Rings Call Forwarding With Variable Rings Call Forwarding - Busy Line Interswitch Call Forwarding - Busy Line Intraswitch Call Forwarding - Busy Line or Don't Answer - Customer Control of Activation/Deactivation		
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CFBL/DA Cust Act/Deact Call Forwarding - Busy Line or Don't Answer - Customer Control of Activation/Deactivation	CFBL Intraswitch	
	CFBL/DA Cust Act/Deact	Call Forwarding - Busy Line or Don't Answer - Customer
Control of Forward-To Number	CFBL/DA Cust Chg Fwd No.	Call Forwarding - Busy Line or Don't Answer - Customer
	CFDA After CW	

Abbreviated Name	Generic Name of Service	Generic Name of Service
CFDA Intraswitch	Abbreviated Name	Full Name
CFDA Intraswitch	CFDA Interswitch	Call Forwarding - Don't Answer Interswitch
Call Denial - Line/Hunt Call Det Redcy-NXX Screen Call Det Redcy-NXX Screen Call Det Redcy's Rpts Pkt Call Detail Recording Reports (Packet) Call Powarding Originating Call Redirection Packet Call Redirection Packet Call Redirection Packet Call Redirection Packet Call Transfer On DID Call Waiting Called Directory Number Delivery via 900NXX Called Directory Number Delivery via DID Callid Directory Number Delivery Via DID Callid Directory Number Delivery - FG D Protocol Calling Billing Number Delivery - FG B Protocol Calling Billing Number Delivery - Via BCLID Calling Directory Number Delivery - Via BCLID Calling Directory Number Delivery - Via ICLID Calling Directory Number Delivery - V	CFDA Intraswitch	
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DID Trunk Queuing DNAL Alarm Service DNAL Amtch Reconfig Svcs DNAL Amtch Sw-Cmputr Apl DNAL Ckt Sw Fac Cntrl DNAL SMDI DNAL SMDI-E DID Trunk Queuing Ameritech - DNAL - Type F - Alarm Service Ameritech - DNAL - Type E - Ameritech Reconfiguration Service Ameritech - DNAL - Type G - Ameritech Switch to Computer Applications (ASCAI) Ameritech - DNAL - Type B - Circuit Switch Facility Control Ameritech - DNAL - Type C - Simplified Message Desk Interface (SMDI) Ameritech - DNAL - Type D - Simplified Message Desk Interface-Expanded (SMDI-E)	Cxr Select On Rvrs Charg	Carrier Selection On Reverse Charge
DNAL Alarm Service DNAL Amtch Reconfig Svcs Ameritech - DNAL - Type E - Ameritech Reconfiguration Service DNAL Amtch Sw-Cmputr Apl Ameritech - DNAL - Type G - Ameritech Switch to Computer Applications (ASCAI) DNAL Ckt Sw Fac Cntrl Ameritech - DNAL - Type B - Circuit Switch Facility Control DNAL SMDI Ameritech - DNAL - Type C - Simplified Message Desk Interface (SMDI) DNAL SMDI-E Ameritech - DNAL - Type D - Simplified Message Desk Interface-Expanded (SMDI-E)	DID Load Across WC	DID Load Across Wire Centers
DNAL Alarm Service DNAL Amtch Reconfig Svcs Ameritech - DNAL - Type E - Ameritech Reconfiguration Service DNAL Amtch Sw-Cmputr Apl Ameritech - DNAL - Type G - Ameritech Switch to Computer Applications (ASCAI) DNAL Ckt Sw Fac Cntrl Ameritech - DNAL - Type B - Circuit Switch Facility Control DNAL SMDI Ameritech - DNAL - Type C - Simplified Message Desk Interface (SMDI) DNAL SMDI-E Ameritech - DNAL - Type D - Simplified Message Desk Interface-Expanded (SMDI-E)	DID Trunk Queuing	DID Trunk Queuing
DNAL Amtch Reconfig Svcs Ameritech - DNAL - Type E - Ameritech Reconfiguration Service DNAL Amtch Sw-Cmputr Apl Ameritech - DNAL - Type G - Ameritech Switch to Computer Applications (ASCAI) DNAL Ckt Sw Fac Cntrl Ameritech - DNAL - Type B - Circuit Switch Facility Control DNAL SMDI Ameritech - DNAL - Type C - Simplified Message Desk Interface (SMDI) DNAL SMDI-E Ameritech - DNAL - Type D - Simplified Message Desk Interface-Expanded (SMDI-E)		Ameritech - DNAL - Type F - Alarm Service
Applications (ASCAI) DNAL Ckt Sw Fac Cntrl DNAL SMDI DNAL SMDI DNAL SMDI-E Ameritech - DNAL - Type B - Circuit Switch Facility Control Ameritech - DNAL - Type C - Simplified Message Desk Interface (SMDI) Ameritech - DNAL - Type D - Simplified Message Desk Interface-Expanded (SMDI-E)	DNAL Amtch Reconfig Svcs	Ameritech - DNAL - Type E - Ameritech Reconfiguration
DNAL Ckt Sw Fac Cntrl Ameritech - DNAL - Type B - Circuit Switch Facility Control Ameritech - DNAL - Type C - Simplified Message Desk Interface (SMDI) DNAL SMDI-E Ameritech - DNAL - Type D - Simplified Message Desk Interface-Expanded (SMDI-E)	DNAL Amtch Sw-Cmputr Apl	· · · · · · · · · · · · · · · · · · ·
DNAL SMDI Ameritech - DNAL - Type C - Simplified Message Desk Interface (SMDI) DNAL SMDI-E Ameritech - DNAL - Type D - Simplified Message Desk Interface-Expanded (SMDI-E)	DNAL Ckt Sw Fac Cntrl	
DNAL SMDI-E Ameritech - DNAL - Type D - Simplified Message Desk Interface-Expanded (SMDI-E)		Ameritech - DNAL - Type C - Simplified Message Desk
	DNAL SMDI-E	Ameritech - DNAL - Type D - Simplified Message Desk
(STP)	DNAL STP Access	Ameritech - DNAL - Type A - Signal Transfer Point Access
DS0-B Subrate Multiplxr DS0-B Subrate Multiplexing Service	DS0-B Subrate Multiplxr	
Data Over Voice (DOV) Data Over Voice (DOV) Service		
Default Window Size-Pkt Default Window Size - Packet		
Derived Ch (Monitoring) Derived Channels (Monitoring)		
Dial Call Waiting Dial Call Waiting		

Generic Name of Service	Generic Name of Service
Abbreviated Name	Full Name
Dialed Num ID/INWATS-DID	Dialed Number Identification via INWATS to DID
Digital Data Service 2-Wire	Digital Data Service 2-Wire
Dir Call Pickup w/Barge	Directed Call Pickup With Barge-In
Dir Call Pickup w/oBarge	Directed Call Pickup Without Barge-In
Direct Call Packet	Direct Call - Packet
Dist Ring Term Screen	Distinctive Ringing - Terminating Screening
Distinctive Alert	Distinctive Alert
Distinctive Ringing	Distinctive Ringing
Extended Superframe Cond	Extended Superframe Conditioning
Fast Select Accept Pkt	Fast Select Acceptance - Packet
Fast Select Request Pkt	Fast Select Request - Packet
Faster Signaling On DID	Faster Signaling On DID
Flexible ANI	Flexible ANI Information Digits
Flow Contr Param Neg-Pkt	Flow Control Parameter Negotiation - Packet
Frame Relay Service	Frame Relay Service
High Cap Dig Handoff Svc	High Capacity Digital Hand-Off Service
Hot Line	Hot Line
Hunt Groups Packet	Hunt Groups - Packet
Inband Signaling	Inband Signaling
Incoming Cls Barred-Pkt	Incoming Calls Barred - Packet
Initial Address Message	Initial Address Message
Logical Chan Layout-Pkt	Logical Channel Layout - Packet
Logical Channels-Pkt	Logical Channels - Packet
MLHG Access to Each Port	Multiline Hunt Group - Individual Access To Each Port In Hunt
WEITG Access to Lacin For	Group
MLHG CO Announcements	Multiline Hunt Group - C.O. Announcements
MLHG Overflow	Multiline Hunt Group - Overflow
MLHG UCD Line Hunting	Multiline Hunt Group - Uniform Call Distribution Line Hunting
MLHG UCD With Queuing	Multiline Hunt Group - UCD With Queuing
MWI - Packet Access	Message Waiting Indicator - Packet Access
MWI ATR Audible Msg Wtg	Message Waiting Indicator (MWI) - Ability To Receive Audible
g ritg	Message Waiting
MWI ATR Visual Msg Wtg	Message Waiting Indicator (MWI) - Ability To Receive Visual
39	Message Waiting
MWI Act (Audible) Expand	Message Waiting Indicator Activation(Audible) - Expanded
MWI Act (Visual) Expand	Message Waiting Indicator Activation(Visual) - Expanded
MWI Activation (Audible)	Message Waiting Indicator - Activation (Audible)
MWI Activation (Visual)	Message Waiting Indicator - Activation (Visual)
MWI Audible/Visual	Message Waiting Indicator - Audible/Visual
Make Busy Key	Make Busy Key
MegaBit Service	MegaBit Service
Menu Acs Trans - Gateway	Menu Access Translator - Gateway
Menu Server-Pkt	Menu Server - Packet
Message Desk (SMDI)	Message Desk (SMDI)
Monthly Call Detail Rec	Monthly Call Detail Recording
Mplx-T1-1.544Mbps-Line	Multiplexing - T1 Transport - 1.544 Mbps-Line Side
Mplx-T1-1.544Mbps-Trunk	Multiplexing - T1 Transport - 1.544 Mbps-Trunk Side
Mssg Desk Expand (SMDIE)	Message Desk (SMDI) - Expanded
Mult Ntwk Addr/Port-Pkt	Multiple Network Address/Port - Packet

Generic Name of Service	Generic Name of Service
Abbreviated Name	Full Name
Multiline Hunt Group	Multiline Hunt Group
Multiplexing-Digital	Multiplexing - Digital
Name of Calling Party	Delivery of Calling Party Name
Network Reconfiguration	Network Reconfiguration
Order Entry Service	Order Entry Service
Outgoing Cls Barred-Pkt	Outgoing Calls Barred - Packet
Perm Virtual Ckt-Pkt	Permanent Virtual Circuit - Packet
Preselect for Data Svcs	Preselection for Data Services
Priority Service Install	Priority Installation Service
Remote Call Forwarding	Remote Call Forwarding
Rev Blig On Ckt Acc	Reverse Billing On Circuit Switched Access
Rev Chg Req Optn-Pkt	Reverse Charge Request Option (Packet)
Reverse Chg Accept Pkt	Reverse Change Acceptance - Packet
Route Diversity	Route Diversity
Secondary Ch Capability	Secondary Channel Capability
Selective Call Forward'g	Selective Call Forwarding
Selective Call Rejection	Selective Call Rejection
Shared Speed Calling	Shared Speed Calling
Single Num Acc-Mult Locn	Single Number Access for Multiple Locations
Speed Calling	Speed Calling
Surrogate Client Number	Surrogate Client Number
Svc Code Denial Ln/Hunt	Service Code Denial On Line Or Hunt Group
Switched 56 Kilobit Svc	Switched 56 Kilobit Service
Tandem Routing	Tandem Routing
Third Numb Bill Inhibitd	Third Number Billing Inhibited
Three Way Call Transfer	Three Way Call Transfer
Three Way Calling	Three Way Calling
Traffic Data Reports	Traffic Data Reports
Trans Imprv-Ckt Sw Svcs	Transmission Improvement for Circuit Switched Services
Trunk Side Access Facil	Trunk Side Access Facility
Unif 7D Acc Num Overlay	Uniform 7 Digit Access Number via Overlay Networking
Unif 7D Acc Num RCF	Uniform 7 Digit Access Number - Remote Call Forwarding
Unif Acc Numb-Bus Lines	Uniform Access Numbers for Business Lines
User Initd Diagnostics	User Initiated Diagnostics
Ver Intgrty Subscr Lines	Verify Integrity of Subscriber Lines
Video DT Messaging Port	Video Dialtone Messaging Port
Video Di Messaging Fort Video Dialtone Access Lk	Video Dialtone Access Link
Video Dialtone Access Lk Video Dialtone Bdcst Svc	Video Dialtone Access Link Video Dialtone Broadcast Service
Video Dialtone Bucst Svc Video Dialtone Narrowcas	Video Dialtone Broadcast Service Video Dialtone Narrowcast Service
Warm Line	Warm Line
YY CITTI LINE	WARTH LINE
(3/31/00)	
(3/3//00)	



BELL OPERATING COMPANIES

Service Descriptions ONA Services User Guide

January 31, 2000

ONA Services

Names, Descriptions, Cross References

FOREWORD

Attached is the Services Descriptions section of the ONA Services User Guide, an update of information that was previously issued on July 31, 1999.

The Services Descriptions section of the ONA Services User Guide represents an agreement on the part of the BOCs for uniform names and technical descriptions of the Basic Serving Arrangements (BSAs), Basic Service Elements (BSEs) and Complementary Network Services (CNSs) that relate to the ESP requests included in BOC ONA Special Report Number 1, Issue 2 (October 1987). That Special Report is a compilation of the 118 requests received by all the BOCs during the input process for ESP requests prior to filing of the 2/1/88 ONA Plans. Some items, marked with an asterisk (*) in their titles, have been deleted after the last issue of the report based on the availability of updated information indicating that they cannot be offered. For each service listed, a table is provided that gives an indication of which BOCs plan to offer the service, the individual BOC's product name, and whether the BOC classifies the service as a BSA, BSE or CNS.

The BSAs, which respond to the 118 ESP requests for ONA services, are listed in the following four categories of Basic Serving Arrangements:

Circuit Switched Serving Arrangements

A circuit switched basic serving arrangement (BSA) provides an enhanced service provider (ESP) with a connection to the circuit switched network.

Packet Switched Serving Arrangements

A packet switched BSA provides an ESP with a connection to the packet switched network.

Dedicated Serving Arrangements

A dedicated BSA provides an ESP with a dedicated point-to-point connection through the network.

Dedicated Network Access Link Serving Arrangements

A dedicated network access link (DNAL) BSA provides a dedicated data channel between the ESP's termination and a designated central office which contains the specific features required by the ESP. The DNAL is used to transmit control information from the ESP to the network or to deliver information from the network to the ESP.

Following the BSAs are the BSEs and CNSs, which are listed in alphabetical order in the above four BSA categories. These BSEs and CNSs respond to the 118 ESP requests for ONA services that were made to all BOCs. A description of each BSE or CNS is provided, which includes a brief technical description and a table listing the product name for each company that offers the service.

Appendix 1 contains a set of descriptions of ONA services that are offered by one or more BOC in response to requests received independent of the 118 ESP requests received by all BOCs. Included is a technical description and a table with the product name for each company that offers the service.

Appendix 2 contains a list of BOC contacts.

Appendix 3 contains the BSA Matrix, a report that shows the relationship between the BSAs and the BSEs included in the ONA Services User Guide. Included is a table showing the generic name for each BSA, and the specific name used by each company offering the BSA. Also included is a set of tables, one for each BSA, listing which BSEs are associated with the BSA for each company. These matrices only include generic BSAs and BSEs, and do not include the CNSs or any region specific services.

This report does not supersede any information provided in the BOC ONA plans and amendments. All capabilities described are not available in all switching or transmission systems. Generic descriptions of BSAs do not imply that applicable generic functions and capabilities are available or compatible with all types of BSAs. In addition, generic descriptions are intended for informational purposes and their existence does not imply that specific products and/or services are necessarily tariffed and/or available in any or all state/ federal jurisdictions within a particular company's service area. The BSAs, BSEs and CNSs identified in this report cannot be ordered until appropriate tariffs are effective. Some ONA services may not be tariffed in all areas. The reader should refer to the individual BOC ONA plans and amendments or the BOC contacts listed in Appendix 2 to this report for information on BOC availability and deployment plans for the technical capabilities described in this report.

References to switching system generics that have not yet been released by the vendors are based on our current information about which features are planned for inclusion in those generic releases. If the vendors change the availability of any features for future generic releases that are referenced in this document, the availability of some services may be affected.

Technical references that are publicly available are listed for each service, where available. Ordering information for each of the technical references may be found in the *Telcordia Technologies Catalog of Technical Information* (including ordering information for reference documents published by individual regional companies). To order, call 1-800-521-2673 toll free from anywhere in the USA; call (732) 699-5800 for foreign calls; fax (732) 336-2559.

Recently, various BOCs have completed, or are in the process of completing, corporate mergers. For this document, the old company names will continue to be used (for example, Bell Atlantic and NYNEX are listed separately; Southwestern Bell and Pacific Bell are listed separately).

Questions on this report should be directed to the BOC contacts listed in Appendix 2 to this report.

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BSA Descriptions

BSAs have been arranged into four categories:

- 1. Circuit Switched
- 2. Packet Switched
- 3. Dedicated
- 4. Dedicated Network Access Link

Each category may have several types. Following are descriptions of the BSA categories and the associated BSA types.

1. Category 1 - Circuit Switched BSA

A circuit switched basic serving arrangement (BSA) provides an enhanced service provider (ESP) with a connection to the circuit switched network. This BSA is capable of supporting analog signals of approximately 300 to 3000 Hz or a circuit switched digital interface with a call type of digital encoded voice, 3.1 kHz or 7 kHz audio, 56 kbps or 64 kbps data transmission. This BSA may also transmit voice grade analog data. The transmission interface may be 2-wire or 4-wire, or derived from a variety of multiplexing alternatives (for example, Digital Signal (DS) level 0 from DS level 1, or DS1 from DS3).

This BSA may support one-way or two-way directionality. Calls are set up and taken down on a call by call basis. The transport/usage element could be intra-office or inter-office.

Route diversity may be available with this serving arrangement.

1.1 Category 1, Type A - Circuit Switched Line BSA (1039)

Service Description

A circuit switched line BSA provides an ESP with a line side connection to the circuit switched network.

This line side connection could include alternative types of network connection, address and supervisory in-band or out-of-band signaling. Examples of network connections are standard telephone line or a line side type connection (e.g., PBX service). This BSA may support one-way or two-way directionality on a 2-wire or 4-wire transmission interface.

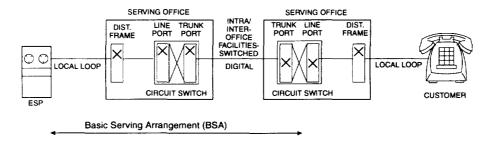
Calls are set up and taken down on a call by call basis. The calling scope may include, for example, an entire Local Access and Transport Area (LATA), a market area or be limited to all or part of a metropolitan area. Directory numbers are assigned from the North American Numbering Plan without any special routing or other use of the number.

Generic Name of BSA	Regional Company BSA Name
Category 1, Type A - Circuit Switched Line BSA*	AM - Circuit Switched Line
	BA - Business Individual Line
	BA - Line Side BSA
	BS - Voice Grade - Line - Circuit Switched
	NX - Circuit Switched - Line
	PB - Access Line Arrangement
	SWB - Circuit Switched - Line Side Basic Serving Arrangement (BSA-A)
	USW - Voice Grade - Line - Circuit Switched

* Based on the Federal Communications Commission (FCC) CC Docket 89-79 Order dated July 11, 1991, there will be a new line side BSA on FCC approval of tariffs submitted November 1, 1991.

UPDATED 1/31/00

Voice Grade - Line - Circuit Switched - BSA



Alternatives

An alternative is an item that must be selected for the BSA to be technically meaningful. Alternative items may be available from some or all of the Local Exchange Carriers (LECs). Refer to the individual LEC tariff reference diskette for the reference information where LEC defined alternatives may be found. Examples of potential alternatives may be: Service Code Denial and Uniform Call Distribution.

Signaling

Signaling arrangements extend line circuit or signaling circuit alerting information on metallic or fiber facilities from one customer premises location to another customer premises location. The signaling arrangement can be terminated on trunk-like or line side interfaces of the LEC switch. Examples of address signaling on an analog interface are dial pulse or dual tone multifrequency (DTMF) with supervisory signaling of loop start or ground start. A digital interface will offer address and supervisory signaling via an out-of-band standardized protocol.

Transmission

The subject of transmission covers a broad range of performance considerations related to the physical facilities that compose network architecture. Transmission parameters are designed to provide objective transmission performance characteristics, as perceived by the end user and LEC, between the points of termination. Transmission parameters are defined for each Network Interface (see below) supporting this BSA. These parameters are defined in the reference documentation.

Network Interfaces

The electrical and physical interface with the LEC is described by a Network Channel Interface (NCI) code for each end user termination and each service provider termination. NCI codes are provided to aid the user in understanding the relationship of the network interface to the electrical or optical characteristics of the interface. NCI codes have four basic components: (1) number of conductors (wire or fibers), (2) protocol code, (3) nominal reference impedance code, and (4) any applicable protocol options.

References

- GR-334 Switched Access Service: Transmission Parameter Limits and Interface Combinations, Issue 1, June 1994
- U S WEST's document 77316 Pacific Northwest Bell's Addendum to Voice Grade Switched Access Service TR-NPL-000334, April 1986.

1.2 Category 1, Type B - Circuit Switched Trunk BSA (1040)

Service Description

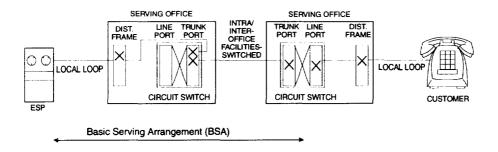
A circuit switched trunk BSA provides an enhanced service provider (ESP) with a trunk side connection to the circuit switched network.

Various types of network connections, address signaling and supervisory signaling are available. An example of network connections to the serving office may be direct trunk or a tandem connection. Calls are set up and taken down on a call-by-call basis. Different access arrangements, based on the North American Numbering Plan, are available from the Local Exchange Carriers (LEC). This BSA may support one-way or two-way directionality.

Generic Name of BSA	Regional Company BSA Name
Category 1, Type B - Circuit Switched Trunk BSA	AM - Circuit Switched Trunk
	BA - Trunkside BSA - 950 Option
	BA - Trunkside BSA - 10XXX Option
	BS - Circuit Switched Trunk - Voice Grade
	NX - Circuit Switched Trunk
	PB - Access Trunk Arrangement (950)
	PB - Access Trunk Arrangement (10XXX)
	SWB - Circuit Switched - Trunk Side Alternative B Basic Serving Arrangement (BSA-B)
	SWB - Circuit Switched - Trunk Side Alternative D Basic Serving Arrangement (BSA-D)
	USW - Voice Grade - Trunk - Circuit Switched

Alternatives

Voice Grade - Trunk - Circuit Switched - BSA



An alternative is an item that must be selected for the BSA to be technically meaningful. Alternative items may be available from some or all of the LECs. Refer to the individual LEC tariff reference diskette for the reference information where LEC defined alternatives may be found. Examples of potential alternatives may be: Service Class Routing, Dial Pulse Address Signaling, and Cut Through.

Signaling

Signaling arrangements extend trunk circuit or signaling circuit alerting information on metallic or fiber facilities from one customer premises location to another customer premises location. These signals are the means by which the end user initiates a request for service, holds a connection or releases a connection. The signaling arrangements can be terminated on line-like or trunk side interfaces of the LEC switch. Examples of point-of-termination supervisory signaling arrangements that may be ordered are Multi-Frequency (in-band), Signaling System 7 (SS7) (out of band), reverse battery and E&M.

Transmission

The subject of transmission covers a broad range of performance considerations related to the physical facilities that compose network architecture. Transmission parameters are designed to provide objective transmission performance characteristics, as perceived by the end user and LEC, between the points of termination. Transmission parameters are defined for each Network Interface (see below) supporting this BSA. These parameters are defined in the reference documentation.

Network Interfaces

The electrical and physical interface with the LEC is described by a Network Channel Interface (NCI) code for each end user termination and each service provider termination. NCI codes are provided to aid the user in understanding the relationship of the network interface to the electrical or optical characteristics of the interface. NCI codes have four basic components: (1) number of conductors (wire or fibers), (2) protocol code, (3) nominal reference impedance code, and (4) any applicable protocol options.

References

- GR-334 Switched Access Service: Transmission Parameter Limits and Interface Combinations, Issue 1, June
 1994
- TR-TSY-000698 Feature Group B FSD 20-24-0300, Issue 1, June 1989, Rev. 1, July 1990
- LSSGR FR-64 (formerly FR-NWT-000064), GR-690, FSD 20-24-0000, Exchange Access Interconnection, Issue
 March 1991, Issue 2, September 1995, Revision 01, October 1996
- TR-NPL-000258 Compatibility Information for Feature Group D Switched Access Service, Issue 1, October 1985.
- SR-NPL-001321 Connection Setup Time for Feature Group D and Terminating Feature Group B, Special Report, Issue 1, February 1989.
- Ameritech reference: AM TR-TMO-000094 Switched Access Service Feature Group D, August 1992. (Written
 as a companion document to TR-NWT-000334, Switched Access Service: Transmission Parameter Limits and
 Interface Combinations.)

References for SS7

 GR-905 Common Channel Signaling Network Interface Specification (CCSNIS) Supporting Network Interconnection, Message Transfer Part (MTP), and ISDN User Part (ISDNUP), Issue 2, Rev01 - December 1997, Rev02 - December 1998 (replaces TR-TSV-000905)